File 8/3 M.O.7 W.centre Manchester 8-4
METEOROLOGICAL OFFICE 10 SEP 1963 MANCHESTER WEATHER CENTRE

# HYDROLOGICAL MEMORANDA NO. 19

## Rainfall over the areas of the Great Ouse River Board 1916-1950

1. Rainfall, 1916-1950;

1.1. Introduction. The estimation of standard-period averages for the months or for the year, is carried out in three stages; the selection of sound, homogeneous records complete for the 35 years, 1916-1950, which provide arithmetic means of monthly and annual rainfall, the basic values for all other work; the estimation of standard-period, annual averages for short-period stations; the estimation of standard-period, monthly averages for stations in the second group, where these are needed for special purposes.

A detailed account of the methods developed and used in the Meteorological Office (M.O.3) to estimate standard-period averages from short-period records, is given in Hydrological Memoranda No. 5.

It is possible to process the data in a number of ways but the maps and tables are presented here in the simplest, most precise forms in order to be of use to a wide range of enquirers.

1.2. The Primary Survey, for Great Britian and Northern Ireland, of stations with complete records during 1916-1950, included some cases where the site had been changed to one with a better exposure and observations from both sites had been recorded for a few years. Attempts were made to amend the earlier readings by comparison of the data during a period of overlap, in order to have a set of values from 1916, to the date of the change, which would be representative of the later, and better, record. But since the earlier exposures were usually unsatisfactory (being over-exposed or over-sheltered), the results were mostly erratic and the amended sets of values were not homogeneous. In a few cases, small breaks in a long record were completed by using estimated values, based on a nearby station, with or without the use of modifying factor.

Of the many records examined, monthly and annual averages were accepted for 23 stations. The accepted values (in inches), together with the proportions (per cent) of each monthly average to the annual average, are given in Table I together with the altitude and the National Grid reference for each station. Most of these averages were included in H.M.S.O. publication, M.O.635, "Averages of Rainfall for Great Britain and Northern Ireland, 1916-1950", some were omitted because other stations were so near.

The percentage proportion of monthly averages to the annual averages for the long-period stations were used to draw a series of twelve monthly maps from which it is possible to estimate the percentage of average annual rainfall, for any place, for each month of the year. These maps are shown as Figure 1. Values estimated for a few points between the isopercental lines have been added to give a clearer indication of the variations from place to place. The points chosen are not necessarily the same for each map.

1.3. The Secondary Survey of short-period stations was undertaken next, using records up the the time of the survey, usually into the late 1950's. Long-period stations, whose averages had been rejected from the Primary Survey because the record was not homogeneous, were examined again and averages were estimated for the later (and usually improved) part of the series of observations. Averages

/ based

based on data for less than 5 years were not usually accepted for publication. A list of the accepted averages, for the short-period stations, is given in Table II together with the altitude and National Grid reference for each. The stations are listed in an order based on natural drainage areas which will be used for the first time in British Rainfall, 1961.

These averages, together with the long-period averages listed in Table I, were plotted on Ordnance Survey Maps (scale 4 miles to the inch), and used to draw the lines of average annual rainfall, 1916-1950. The map is shown as Figure 2. The Secondary Survey is frequently revised for special areas using the most up-to-date observations for relatively new stations and the map is subject to revision from time to time. The redrawing of the isohyets usually results in greater detail and perhaps a clearer definition of a wet area as more and more observations become available from improved River Board networks of rain-gauges. Drastic changes are not expected. In Tables I, II and III, with a few exceptions, the average quoted are for records still being maintained in 1963.

1.4. Monthly Averages for a further group of stations were next estimated for use in the Monthly Weather Report and for enquiries. For this purpose some stations were chosen from those listed in Table II to supplement those listed in Table I. To find the monthly averages, the monthly proportions (per cent of annual average) were chosen from the equipercental maps (see Fig. 1) so that the total for the twelve months was 100. These monthly percentages were then used to apportion the annual average (in inches) amongst the months. The results are given in Table III.

1.5. Daily Rainfall, 1916-50. Four of the initial 23 records which were accepted for the Primary Survey (1.2.) were analysed further. These records had regular daily entries, for the 24-hour period 0900 to 0900, for each of the 35 years, 1916-50. Table IVa gives, for each of the stations, the 35-year totals for each day of the year (in inches). Table IVb gives 1/35 of all possible totals from .17in. to 24.67in., thus providing a reduction table for the values in IVa to give average daily falls from "trace" to .70in. For 29 February the reduction factor is, of course, 1/9.

These daily averages can be re-grouped as 5-day means, 7-day means, consecutive or sliding means or in whatever form suits a specific requirement.

2. Frequencies of Daily Rainfall, 1916-1950. The same set of daily values used for Table IVa were re-grouped to give frequency tables with intervals of .01in. These have been re-arranged in Table V to give accumulated frequencies with intervals of .01in. up to 2.50in. and a wider grouping above this.

3. Extremes of Rainfall. The records for the 35-year period, 1916-1950, for the stations used in Tables IV and V were also used to find maximum and minimum values for the year and for each month and also maximum daily values for each month. These maxima and minima are given in Table VI and Table VII. Additional extremes are given in these tables to cover the 50-year period, 1911-1960.

Appendix I.

Intense Falls. Falls of 2 hours or less, which have been recorded in British Rainfall and rank as "noteworthy", "remarkable" or "very rare", are listed in Appendix I.

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G.18557/WT/8/63/75

TABLE I. Monthly and Annual Averages of Rainfall, 1916-1950, in inches.

Great Ouse River Board

| County | Station | Alt. Ft. | N.G.R. | Jan | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec | Year | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Buckinghamshire | Sandpit Farm | 260 | SP(42)703343 | 2.30<br>8.9 | 1.79<br>7.0 | 1.69<br>6.6 | 2.00<br>7.8 | 2.10<br>8.2 | 1.66<br>6.5 | 2.40<br>9.3 | 2.23<br>8.7 | 2.20<br>8.6 | 2.48<br>9.6 | 2.60<br>10.1 | 2.25<br>8.7 | 25.70<br>100.0 | Inch<br>% |
| Northamptonshire | Easton Neston House | 370 | SP(42)702494 | 2.43<br>9.1 | 1.85<br>6 9 | 1.70<br>6.4 | 2.15<br>8.1 | 2.15<br>8.1 | 1.68<br>6.3 | 2.49<br>9.4 | 2.35<br>8.8 | 2.20<br>8.3 | 2.55<br>9.6 | 2.68<br>10.1 | 2.36<br>8.9 | 26.59<br>100.0 | Inch<br>% |
| Bedfordshire | Woburn | 291 | SP(42)964358 | 2.13<br>8.6 | 1.61<br>6.5 | 1.58<br>6.4 | 1.93<br>7.8 | 2.20<br>8.9 | 1.70<br>6.9 | 2.44<br>9.8 | 2.33<br>9.4 | 2.03<br>8.2 | 2.30<br>9.3 | 2.46<br>9.9 | 2.07<br>8.3 | 24.78<br>100.0 | Inch<br>% |
| Buckinghamshire | Brayfield House | 180 | SP(42)928520 | 2.19<br>8.9 | 1.67<br>6.8 | 1.59<br>6.4 | 1.90<br>7.7 | 2.11<br>8.5 | 1.61<br>6.5 | 2.36<br>9.6 | 2.23<br>9.0 | 2.28<br>9.2 | 2.28<br>9.2 | 2.48<br>10.0 | 2.02<br>8.2 | 24.72<br>100.0 | Inch<br>% |
| Bedfordshire | Bedford, Castle Road | 100 | TL(52)057498 | 1.97<br>8.7 | 1.47<br>6.5 | 1.42<br>6.3 | 1.69<br>7.5 | 1.97<br>8.7 | 1.45<br>6.4 | 2.21<br>9.8 | 2.03<br>9.0 | 2.12<br>9.4 | 2.11<br>9.4 | 2.29<br>10.1 | 1.84<br>8.2 | 22.57<br>100.0 | Inch<br>% |
| " | Bedford Park | 117 | TL(52)051510 | 1.77<br>8.5 | 1.34<br>6.4 | 1.31<br>6.3 | 1.60<br>7.7 | 1.83<br>8.8 | 1.41<br>6.8 | 2.01<br>9.7 | 1.88<br>9.0 | 1.96<br>9.4 | 1.92<br>9.2 | 2.12<br>10.2 | 1.66<br>8.0 | 20.81<br>100.0 | Inch<br>% |
| " | Three Counties Hospital | 200 | TL(52)203350 | 1.88<br>8.6 | 1.41<br>6.5 | 1.33<br>6.1 | 1.75<br>8.0 | 1.80<br>8.3 | 1.44<br>6.6 | 2.37<br>10.9 | 1.99<br>9.2 | 1.85<br>8.5 | 2.09<br>9.6 | 2.23<br>10.3 | 1.60<br>7.4 | 21.74<br>100.0 | Inch<br>% |
| " | Meppershall | 250 | TL(52)137362 | 1.97<br>8.6 | 1.45<br>6.3 | 1.43<br>6.2 | 1.75<br>7.6 | 1.95<br>8.5 | 1.61<br>7.0 | 2.51<br>10.9 | 2.19<br>9.5 | 1.92<br>8.3 | 2.14<br>9.3 | 2.30<br>10.0 | 1.79<br>7.8 | 23.01<br>100.0 | Inch<br>% |
| " | Shefford | 90 | TL(52)163392 | 1.85<br>8.4 | 1.36<br>6.2 | 1.38<br>6.3 | 1.67<br>7.6 | 1.91<br>8.7 | 1.52<br>6.9 | 2.26<br>10.2 | 2.16<br>9.8 | 1.89<br>8.6 | 2.06<br>9.3 | 2.28<br>10.3 | 1.71<br>7.7 | 22.05<br>100.0 | Inch<br>% |
| ~~N. Devonshire~~ Huntingdonshire | St. Ives, Market Lane | 25 | TL(52) 316714 | 1.93<br>9.0 | 1.44<br>6.7 | 1.33<br>6.2 | 1.66<br>7.7 | 1.85<br>8.6 | 1.61<br>7.5 | 2.14<br>9.9 | 1.89<br>8.8 | 1.99<br>9.2 | 1.89<br>8.8 | 2.09<br>9.7 | 1.70<br>7.9 | 21.52<br>100.0 | Inch<br>% |

TABLE I. Monthly and Annual Averages of Rainfall, 1916-1950, in inches.

Great Ouse River Board

| County | Station | Alt. ft. | N.G.R. | Jan | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec | Year | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cambridgeshire | Boxworth, Manor House | 75 | TL(52)352645 | 2.22 | 1.58 | 1.45 | 1.88 | 1.98 | 1.67 | 2.52 | 1.95 | 2.16 | 2.14 | 2.35 | 1.93 | 23.83 | Inch |
| | | | | 9.3 | 6.6 | 6.1 | 7.9 | 8.3 | 7.0 | 10.6 | 8.2 | 9.1 | 9.0 | 9.8 | 8.1 | 100.0 | % |
| " | Cottenham | 30 | TL(52)452678 | 2.09 | 1.51 | 1.44 | 1.77 | 1.78 | 1.60 | 2.36 | 1.88 | 2.16 | 2.02 | 2.27 | 1.82 | 22.70 | Inch |
| | | | | 9.2 | 6.7 | 6.3 | 7.8 | 7.8 | 7.1 | 10.4 | 8.3 | 9.5 | 8.9 | 10.0 | 8.0 | 100.0 | % |
| " | Odsey | 256 | TL(52)293383 | 2.05 | 1.51 | 1.40 | 1.88 | 1.87 | 1.58 | 2.44 | 2.10 | 1.95 | 2.21 | 2.43 | 1.85 | 23.27 | Inch |
| | | | | 8.8 | 6.5 | 6.0 | 8.1 | 8.0 | 6.8 | 10.5 | 9.0 | 8.4 | 9.5 | 10.4 | 8.0 | 100.0 | % |
| " | Cambridge, Botanic Gardens | 41 | TL(52)453572 | 1.95 | 1.38 | .30 | 1.77 | 1.80 | 1.47 | 2.42 | 1.90 | 2.04 | 1.96 | 2.08 | 1.65 | 21.72 | Inch |
| | | | | 9.0 | 6.4 | 6.0 | 8.1 | 8.3 | 6.8 | 11.1 | 8.7 | 9.4 | 9.0 | 9.6 | 7.6 | 100.0 | % |
| " | Cambridge, Stone Yard | 52 | TL(52)464579 | 1.86 | 1.34 | 1.25 | 1.66 | 1.75 | 1.40 | 2.34 | 1.84 | 2.02 | 1.94 | 2.00 | 1.56 | 20.96 | Inch |
| | | | | 8.9 | 6.4 | 6.0 | 7.9 | 8.3 | 6.7 | 11.2 | 8.8 | 9.6 | 9.3 | 9.5 | 7.4 | 100.0 | % |
| Suffolk | Newmarket S. Works | 81 | TL(52)635648 | 2.11 | 1.55 | 1.36 | 1.88 | 1.74 | 1.56 | 2.61 | 2.21 | 2.20 | 2.12 | 2.27 | 1.92 | 23.53 | Inch |
| | | | | 9.0 | 6.6 | 5.8 | 8.0 | 7.4 | 6.6 | 11.1 | 9.4 | 9.3 | 9.0 | 9.6 | 8.2 | 100.0 | % |
| " | Westley Hall | 226 | TL(52)825647 | 2.33 | 1.70 | 1.61 | 2.12 | 1.85 | 1.70 | 2.82 | 2.46 | 2.31 | 2.41 | 2.61 | 2.19 | 26.11 | Inch |
| | | | | 8.9 | 6.5 | 6.2 | 8.1 | 7.1 | 6.5 | 10.8 | 9.4 | 8.9 | 9.2 | 10.0 | 8.4 | 100.0 | % |
| Norfolk | Thetford W. Works | 165 | TL(52)864846 | 2.19 | 1.61 | 1.43 | 1.90 | 1.80 | 1.70 | 2.62 | 2.38 | 2.23 | 2.21 | 2.44 | 2.06 | 24.57 | Inch |
| | | | | 8.9 | 6.6 | 5.8 | 7.7 | 7.3 | 6.9 | 10.7 | 9.7 | 9.1 | 9.0 | 9.9 | 8.4 | 100.0 | % |
| Cambridgeshire | Littleport | 67 | TL(52)564864 | 1.78 | 1.31 | 1.25 | 1.51 | 1.82 | 1.53 | 2.35 | 1.86 | 1.92 | 1.92 | 1.98 | 1.59 | 20.82 | Inch |
| | | | | 8.6 | 6.3 | 6.0 | 7.3 | 8.7 | 7.4 | 11.3 | 8.9 | 9.2 | 9.2 | 9.5 | 7.6 | 100.0 | % |

TABLE I. Monthly and Annual Averages of Rainfall, 1916-1950, in inches.

Great Ouse River Board

| County | Station | Alt. ft. | | Jan | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec | Year | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cambridgeshire | Stanground | 15 | TL(52)209973 | 1.95 | 1.40 | 1.33 | 1.58 | 1.80 | 1.63 | 2.39 | 1.93 | 1.89 | 1.95 | 2.14 | 1.73 | 21.72 | Inch |
| | | | | 9.0 | 6.4 | 6.1 | 7.3 | 8.3 | 7.5 | 11.0 | 8.9 | 8.7 | 9.0 | 9.8 | 8.0 | 100.0 | % |
| " | March, Store Yard | 8 | TL(52)420967 | 2.08 | 1.46 | 1.41 | 1.70 | 1.91 | 1.72 | 2.55 | 1.90 | 2.11 | 2.13 | 2.25 | 1.85 | 23.07 | Inch |
| | | | | 9.0 | 6.3 | 6.1 | 7.4 | 8.3 | 7.5 | 11.1 | 8.2 | 9.1 | 9.2 | 9.8 | 8.0 | 100.0 | % |
| Norfolk | Outwell | 16 | TF(53)529029 | 1.89 | 1.31 | 1.24 | 1.53 | 1.75 | 1.57 | 2.33 | 1.92 | 2.01 | 2.05 | 2.09 | 1.65 | 21.34 | Inch |
| | | | | 8.9 | 6.1 | 5.8 | 7.2 | 8.2 | 7.4 | 10.9 | 9.0 | 9.4 | 9.6 | 9.8 | 7.7 | 100.0 | % |
| " | Sandringham House | 121 | TF(53)695288 | 2.50 | 1.91 | 1.58 | 2.06 | 2.05 | 1.97 | 2.71 | 2.41 | 2.38 | 2.56 | 2.75 | 2.31 | 27.19 | Inch |
| | | | | 9.2 | 7.0 | 5.8 | 7.6 | 7.5 | 7.2 | 10.0 | 8.9 | 8.8 | 9.4 | 10.1 | 8.5 | 100.0 | % |

TABLE II Estimated Annual Averages of Rainfall (in inches), 1916-1950 for short-period stations. (Great Ouse River Board Area).

| County | Station | Annual Average in. | Alt. ft. | N.G.R. |
|---|---|---|---|---|
| Norfolk | Terrington St. Clement | 20.42 | 13 | TF(53)547187 |
| " | Terrington Manor Farm | 21.67 | 13 | TF(53)553204 |
| " | Clankhavarton | 22.84 | 10 | TF(53)594212 |
| Northamptonshire | Hazelborough Woods | 26.95 | 460 | SP(42)654427 |
| Buckinghamshire | Foxcote P. Station | 25.39 | 320 | SP(42)713357 |
| Northamptonshire | Bradden House | 27.51 | 420 | SP(42)645484 |
| Buckinghamshire | Burcott Lodge Farm | 25.85 | 420 | SP(42)876242 |
| Bedfordshire | Battlesden P. Station | 26.18 | 358 | SP(42)960281 |
| Buckinghamshire | Newport Pagnall, Wolverton Rd. | 24.28 | 182 | SP(42)870436 |
| " | Olney Waterworks | 24.79 | 170 | SP(42)873510 |
| Bedfordshire | Pavenham | 23.90 | 200 | SP(42)982555 |
| " | Kempston | 22.49 | 125 | TL(52)033477 |
| " | Goldington | 21.39 | 79 | TL(52)091509 |
| " | Renhold | 22.54 | 168 | TL(52)087529 |
| " | Cardington | 20.76 | 75 | TL(52)081463 |
| " | Mogerhanger Park | 22.80 | 152 | TL(52)133485 |
| Hertfordshire | Hitchin, Knightswood | 26.40 | 280 | TL(52)191290 |
| Bedfordshire | Arlesey, S. Works | 22.75 | 141 | TL(52)190363 |
| " | Silsoe | 22.50 | 195 | TL(52)091358 |
| " | New Spring, P. Station | 21.87 | 175 | TL(52)210416 |
| " | Potton, S. Works | 22.49 | 111 | TL(52)221485 |
| Huntingdonshire | Great Gransden | 22.28 | 150 | TL(52)267557 |
| " | St. Neots | 21.45 | 70 | TL(52)189605 |
| " | Wyton | 21.40 | 141 | TL(52)284745 |
| Cambridgeshire | Boxworth | 21.37 | 157 | TL(52)34.7639 |
| " | Brownshill Staunch | 21.22 | 10 | TL(52)370728 |
| " | Stretham | 19.94 | 13 | TL(52)516729 |
| Essex | Rickling | 23.84 | 325 | TL(52)498314 |
| " | Saffron Waldon | 23.29 | 235 | TL(52)532378 |
| Cambridgeshire | Abington, Piggots Hall | 23.18 | 98 | TL(52)304446 |
| Hertfordshire | Barley | 23.31 | 320 | TL(52)399389 |
| Cambridgeshire | Grantchester Meadows | 21.81 | 35 | TL(52)443571 |
| " | Cambridge P. Station | 20.60 | 42 | TL(52)466593 |
| " | Cambridge, Woodlark Rd. | 22.61 | 62 | TL(52)436602 |
| " | Cambridge N.I.A.B. | 21.53 | 80 | TL(52)434604 |
| " | Bottisham Lock | 20.16 | 10 | TL(52)509657 |
| " | Fulbourn | 21.40 | 99 | TL(52)540549 |
| " | Fulbourn Hospital | 21.66 | 72 | TL(52)499563 |
| " | Stretchworth Park | 23.29 | 270 | TL(52)643591 |
| " | Fordham | 21.05 | 30 | TL(52)623711 |
| " | Ely, Rosewell Pits | 21.99 | 114 | TL(52)560805 |
| Suffolk | Bury St. Edmunds, Corp. Depot | 24.92 | 181 | TL(52)850643 |
| " | Sury St. Edmunds, Sugar Fact. | 24.82 | 160 | TL(52)862664 |
| " | Troston Hall | 23.81 | 130 | TL(52)899717 |
| " | Worlington | 22.70 | 35 | TL(52)684729 |
| " | Moulton P. Station | 24.36 | 135 | TL(52)698645 |
| Cambridgeshire | Isleham Lock | 20.94 | 10 | TL(52)64.9761 |
| Suffolk | Mildenhall | 21.61 | 15 | TL(52)683778 |
| Cambridgeshire | Prickwillow | 22.96 | 10 | TL(52)597825 |
| Suffolk | Barton Lodge | 22.42 | 200 | TL(52)884664 |
| " | Elvedon Hall | 23.97 | 130 | TL(52)822800 |
| Norfolk | Kilverstone Hall | 23.75 | 55 | TL(52)891841 |
| Suffolk | Brandon W. Works | 26.39 | 82 | TL(52)793862 |
| " | Eriswell P. Station | 24.52 | 30 | TL(52)729761 |

TABLE II Estimated Annual Averages of Rainfall (in inches), 1916-1950 for short-period stations. (Great Ouse River Board Area)(contd)

| County | Station | Annual Average in. | Alt. ft. | N.G.R. |
|---|---|---|---|---|
| Norfolk | Denton Lodge P. Station | 24.79 | 120 | TL(52)753920 |
| " | Denver Sluice | 22.76 | 10 | TF(53)587009 |
| Cambridgeshire | Puddock Bridge | 20.85 | 5 | TL(52)351880 |
| " | Chatteris, The Vicarage | 21.63 | 30 | TL(52)395858 |
| Huntingdonshire | Abbot's Ripton Hall | 21.83 | 80 | TL(52)241779 |
| " | Benwick | 21.59 | 5 | TL(52)324899 |
| Cambridgeshire | Ransonmoor P. Station | 20.65 | 0 | TL(52)358922 |
| Huntingdonshire | Conington Castle | 22.88 | 25 | TL(52)181859 |
| " | Whittlesea Mere | 21.15 | 10 | TL(52)237904 |
| Cambridgeshire | Whittlesey, Ashline Sluice | 21.47 | 15 | TL(52)272962 |
| " | Marmont Priory Lock | 20.68 | 10 | TF(53)489012 |
| Norfolk | Downham, Dial House | 23.82 | 50 | TF(53)607031 |
| " | Crabb's Abbey | 22.29 | 8 | TF(53)600078 |
| " | Wiggen Hall, St.Germans Sluice | 21.77 | 9 | TF(53)588143 |
| " | Kings Lynn, Free Bridge | 22.58 | 15 | TF(53)613184 |
| " | Narford Hall | 25.90 | 50 | TF(53)766139 |
| " | Narborough Hall | 25.44 | 45 | TF(53)748130 |
| " | Marham P. Station | 24.80 | 20 | TF(53)717107 |
| " | North Runcton Lodge | 23.23 | 50 | TF(53)644163 |

TABLE III. Monthly and Annual Averages of Rainfall, 1916-1950, estimated for short period stations (in inches)

Great Ouse River Board Area

| County | Station | Jan | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Norfolk | Terrington St. Clements | 1.80 | 1.35 | 1.18 | 1.49 | 1.57 | 1.51 | 2.14 | 1.88 | 1.82 | 1.90 | 2.06 | 1.72 | 20.42 |
| Bedfordshire | Cardington | 1.78 | 1.33 | 1.31 | 1.56 | 1.81 | 1.41 | 2.07 | 1.91 | 1.87 | 1.93 | 2.10 | 1.68 | 20.76 |
| " | Silsoe | 1.94 | 1.42 | 1.39 | 1.71 | 1.91 | 1.58 | 2.45 | 2.14 | 1.87 | 2.09 | 2.25 | 1.75 | 22.50 |
| Cambridgeshire | Boxworth | 1.99 | 1.41 | 1.30 | 1.69 | 1.77 | 1.50 | 2.27 | 1.75 | 1.95 | 1.92 | 2.09 | 1.73 | 21.37 |
| " | Cambridge N.I.A.B. | 1.96 | 1.40 | 1.31 | 1.72 | 1.79 | 1.48 | 2.35 | 1.85 | 2.02 | 1.92 | 2.09 | 1.64 | 21.53 |
| Suffolk | Mildenhall | 1.90 | 1.41 | 1.25 | 1.71 | 1.62 | 1.49 | 2.42 | 2.03 | 2.01 | 1.92 | 2.05 | 1.80 | 21.61 |

TABLE IVa 35-Year Totals of Daily Rainfall, 1916-1950 (in inches)

Thetford

| Day | Jan | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.25 | 2.44 | 1.16 | 1.88 | 2.11 | 2.08 | 1.40 | 3.01 | 2.82 | 1.25 | 4.09 | 2.85 |
| 2 | 3.22 | 1.87 | 1.35 | 2.63 | 1.09 | 2.33 | 2.03 | 2.53 | 2.79 | 1.41 | 4.04 | 3.14 |
| 3 | 2.62 | 3.57 | 1.01 | 3.10 | 2.42 | 1.63 | 6.57 | 2.82 | 2.97 | 2.30 | 3.14 | 1.32 |
| 4 | 2.05 | 1.31 | 1.49 | 1.76 | 1.23 | 1.75 | 1.65 | 3.45 | 2.52 | 2.32 | 2.37 | 3.14 |
| 5 | 2.29 | 3.15 | 1.69 | 2.36 | 3.70 | 2.36 | 3.45 | 5.56 | 3.02 | 1.53 | 3.68 | 2.05 |
| 6 | 2.27 | 1.50 | 2.14 | 1.51 | 2.05 | 2.19 | 4.76 | 2.57 | 1.77 | 1.23 | 3.13 | 1.96 |
| 7 | 3.22 | 2.00 | 2.19 | 2.24 | 2.40 | 1.71 | 1.54 | 2.78 | 1.27 | 2.19 | 3.34 | 1.77 |
| 8 | 2.05 | 1.19 | .96 | 1.56 | 1.34 | 1.85 | 2.37 | 3.36 | 1.10 | 2.54 | 3.08 | 2.66 |
| 9 | 2.44 | 1.53 | 1.40 | 2.55 | 1.93 | 1.73 | 2.87 | 2.94 | 2.24 | 3.16 | 2.60 | 1.77 |
| 10 | 2.85 | 1.62 | 1.80 | 2.05 | 1.48 | 2.15 | 2.77 | 2.67 | 1.70 | 1.65 | 2.98 | 1.56 |
| 11 | 2.53 | 1.88 | 2.48 | 1.81 | 1.71 | 1.57 | 1.63 | 3.18 | 1.64 | 2.50 | 4.02 | 2.13 |
| 12 | 2.27 | 2.62 | 2.24 | 1.05 | 1.78 | 2.56 | 2.71 | 1.64 | 3.07 | 3.64 | 2.15 | 1.12 |
| 13 | 1.94 | 1.66 | 1.42 | 2.38 | 1.72 | 3.18 | 2.78 | 4.53 | 2.41 | 1.14 | 2.47 | 1.56 |
| 14 | 2.19 | 2.34 | 2.23 | 1.41 | 1.37 | 1.56 | 3.42 | 3.49 | 2.95 | 2.40 | 2.04 | 2.24 |
| 15 | 2.67 | 1.55 | 1.61 | 3.60 | 1.74 | .91 | 4.41 | 2.49 | 1.63 | 2.10 | 2.02 | .90 |
| 16 | 1.74 | 2.36 | 1.69 | 2.76 | 2.19 | 1.09 | 3.21 | 1.39 | 1.92 | 1.84 | 3.13 | 2.21 |
| 17 | 1.27 | 1.63 | 1.68 | 2.62 | 3.42 | 2.83 | 5.89 | 1.52 | 2.88 | 2.97 | 2.68 | 1.72 |
| 18 | 2.93 | 2.21 | .70 | 3.18 | 1.54 | 2.39 | 2.93 | 3.96 | 3.48 | 1.96 | 4.34 | 2.78 |
| 19 | 2.20 | 1.30 | 1.57 | 2.35 | 1.21 | 2.94 | 1.79 | 2.01 | 3.97 | 2.83 | 2.36 | 1.36 |
| 20 | 1.52 | 1.38 | 1.90 | 1.89 | 2.91 | 1.56 | 3.16 | 2.44 | 2.97 | 2.99 | 3.00 | .79 |
| 21 | 2.15 | 1.43 | 1.81 | 1.35 | 1.43 | 1.68 | 3.81 | 2.15 | 2.18 | 3.09 | 3.20 | 3.03 |
| 22 | 2.02 | 2.14 | 1.52 | 1.26 | 1.64 | 1.37 | 2.03 | 2.52 | 2.90 | 3.92 | 2.04 | 3.13 |
| 23 | 2.50 | 2.04 | .91 | 2.20 | 6.02 | 2.10 | 3.05 | 2.41 | 2.93 | 4.30 | 2.14 | 2.01 |
| 24 | 1.76 | 2.27 | 1.28 | 1.98 | 2.30 | 1.47 | 1.49 | 3.01 | 4.44 | 2.49 | 2.36 | 2.21 |
| 25 | 3.29 | 2.18 | 2.84 | 2.67 | 1.99 | 1.32 | 2.75 | 2.00 | 2.29 | 2.71 | 2.19 | 2.81 |
| 26 | 1.68 | 2.35 | 1.99 | 2.58 | 2.44 | 1.61 | 5.19 | 2.14 | 4.43 | 3.17 | 2.91 | 3.71 |
| 27 | 2.61 | 2.52 | 1.26 | 3.62 | 1.29 | 2.85 | 3.56 | 1.76 | 3.58 | 2.55 | 2.50 | 2.98 |
| 28 | 3.66 | 1.79 | 1.32 | 1.63 | 1.57 | 2.54 | 2.45 | 2.62 | 1.46 | 3.83 | 3.10 | 2.89 |
| 29 | 2.92 | .42 | 1.55 | 2.70 | 2.05 | 1.45 | 1.18 | 2.39 | 3.27 | 2.98 | 2.63 | 2.94 |
| 30 | 2.25 | – | .99 | 1.94 | 2.00 | 2.61 | 1.12 | 1.85 | 1.59 | 2.12 | 1.70 | 4.11 |
| 31 | 3.39 | – | 1.76 | – | 1.05 | – | 3.54 | 2.16 | – | 2.09 | – | 3.30 |



G.18557/AVK/7/63/

TABLE IVa Contd. 35-Year Totals of Daily Rainfall, 1916-1950 (in inches)

Bedford

| Day | Jan | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.87 | 2.54 | 1.33 | 2.62 | 2.61 | 1.70 | 1.37 | 3.05 | 1.55 | 1.17 | 3.30 | 2.96 |
| 2 | 2.53 | 1.53 | .96 | 1.93 | 1.02 | 1.85 | 1.75 | 4.96 | 2.65 | 1.46 | 3.68 | 1.56 |
| 3 | 2.52 | 2.97 | .61 | 3.48 | 2.44 | 1.46 | 2.05 | 1.75 | 3.09 | 2.01 | 3.28 | 1.19 |
| 4 | 1.55 | .88 | 2.44 | 1.89 | 1.32 | .87 | .73 | 1.27 | 2.92 | 1.56 | 1.56 | 2.28 |
| 5 | .82 | 2.31 | 1.97 | 2.30 | 2.87 | 1.09 | 2.81 | 1.74 | 2.98 | .82 | 3.78 | 1.71 |
| 6 | 2.27 | 1.43 | 1.51 | 1.84 | 2.41 | 1.99 | 2.67 | 2.39 | 1.38 | 1.17 | 1.88 | 1.81 |
| 7 | 2.60 | 1.96 | 2.45 | 1.05 | 1.28 | 1.91 | 2.29 | 1.88 | 1.11 | 1.57 | 2.60 | 1.70 |
| 8 | 1.61 | 2.53 | .66 | 1.66 | .82 | 1.26 | 1.47 | 3.05 | 1.73 | 2.97 | 2.33 | 2.09 |
| 9 | 2.04 | 1.06 | .80 | 1.41 | 1.12 | 3.33 | 4.06 | 1.86 | 1.75 | 2.15 | 2.35 | 1.94 |
| 10 | 2.42 | .89 | 1.64 | 1.35 | 1.39 | 2.11 | 3.13 | 3.00 | 1.45 | 1.01 | 2.21 | 1.93 |
| 11 | 2.21 | 1.16 | 1.69 | 1.83 | 1.64 | 1.59 | 2.22 | 1.90 | 1.83 | 1.93 | 3.22 | 1.24 |
| 12 | 1.37 | 2.59 | 1.28 | 1.22 | 1.44 | 2.51 | .80 | 1.77 | 2.49 | 2.48 | 2.50 | .93 |
| 13 | .93 | 1.19 | 2.70 | 2.41 | 1.21 | 2.28 | 3.02 | 1.34 | 1.52 | 1.87 | 2.36 | 1.59 |
| 14 | 1.41 | .56 | 2.44 | .96 | 1.30 | 2.25 | 2.28 | 2.54 | 2.83 | .83 | 2.81 | 1.43 |
| 15 | 2.44 | 1.40 | 1.44 | 2.59 | 2.20 | 1.40 | 4.32 | 1.38 | 2.75 | 1.95 | 1.82 | 2.38 |
| 16 | 1.27 | 1.44 | 2.34 | 2.28 | 3.02 | 1.32 | 1.81 | 1.05 | 1.91 | 2.78 | 3.31 | .84 |
| 17 | 1.11 | 1.16 | .99 | 2.00 | 1.97 | .88 | 4.79 | 1.17 | 2.22 | 1.93 | 2.07 | .97 |
| 18 | 2.16 | 1.58 | .51 | 1.82 | 1.92 | 1.41 | 1.69 | 1.36 | 3.01 | 2.46 | 3.57 | 1.90 |
| 19 | 2.40 | 1.46 | 1.79 | 1.47 | 1.63 | 1.56 | 1.04 | 2.36 | 2.72 | 2.59 | 2.82 | 1.11 |
| 20 | 1.92 | 1.26 | 1.02 | 2.26 | 2.54 | 2.70 | 2.10 | 3.17 | 4.09 | 2.75 | 2.47 | .91 |
| 21 | 1.66 | 1.88 | 1.79 | 1.19 | 3.08 | 1.89 | 2.40 | 2.50 | 2.24 | 3.07 | 1.93 | 2.70 |
| 22 | 1.86 | 1.99 | 1.41 | .73 | 3.18 | 1.09 | 1.93 | 1.72 | 3.64 | 2.33 | 1.92 | 3.00 |
| 23 | 1.69 | 1.72 | 1.01 | 1.54 | 4.48 | .81 | 1.13 | 2.66 | 2.47 | 5.00 | 1.48 | 1.59 |
| 24 | 1.75 | 1.76 | 1.07 | .84 | 1.82 | 1.30 | .99 | 1.57 | 3.47 | 1.40 | 2.26 | 2.07 |
| 25 | 1.99 | 2.25 | 1.60 | 1.63 | 3.58 | 1.68 | 2.30 | 2.47 | 1.25 | 3.16 | 1.69 | 1.94 |
| 26 | 2.08 | 1.94 | 1.34 | 2.65 | 2.88 | 1.05 | 3.51 | 1.02 | 1.16 | 2.82 | 1.82 | 2.53 |
| 27 | 2.68 | 1.24 | 1.77 | 2.67 | 2.37 | 1.74 | 2.32 | 2.12 | 1.76 | 2.48 | 2.03 | 2.48 |
| 28 | 2.07 | 2.02 | 1.33 | 1.65 | 1.61 | 1.69 | 3.32 | 3.21 | 1.25 | 2.20 | 2.57 | 2.09 |
| 29 | 3.89 | .27 | .53 | 2.72 | 2.25 | 1.12 | 2.49 | 2.67 | 3.24 | 2.66 | 2.03 | 2.08 |
| 30 | 2.35 | - | 1.76 | 1.99 | 1.35 | 1.59 | 2.00 | 2.01 | 2.12 | 1.37 | 2.52 | 2.47 |
| 31 | 2.38 | - | 1.77 | - | 1.45 | - | 1.57 | .95 | - | 3.22 | - | 2.50 |

TABLE IVa Contd. 35-year Totals of Daily Rainfall, 1916-1950 (in inches)

Cambridge

| Day | Jan | Feb | Mar | Apr | May | June | July | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.43 | 2.28 | 1.12 | 2.29 | 1.76 | 1.61 | 1.28 | 2.52 | 1.54 | 1.43 | 2.85 | 3.52 |
| 2 | 2.60 | 2.00 | 1.29 | 2.23 | 2.17 | 2.06 | 1.54 | 3.67 | 2.92 | 8.23 | 2.80 | 2.27 |
| 3 | 1.92 | 2.27 | .60 | 3.38 | 3.27 | 1.46 | 4.70 | 1.74 | 5.18 | 2.27 | 3.57 | .88 |
| 4 | 1.44 | 1.14 | 2.03 | 1.85 | .63 | 1.72 | 1.24 | 2.24 | 2.35 | 1.68 | 1.69 | 2.33 |
| 5 | 1.56 | 2.59 | 1.43 | 2.37 | 3.11 | 1.65 | 2.80 | 2.22 | 1.98 | 1.41 | 2.59 | 1.72 |
| 6 | 2.79 | 1.54 | 2.76 | 1.50 | 2.50 | 1.80 | 4.65 | 2.90 | 1.36 | 1.04 | 2.59 | 1.28 |
| 7 | 3.20 | 1.82 | 2.05 | 1.58 | 1.39 | 1.46 | 1.41 | 2.25 | .85 | 2.35 | 3.02 | 1.66 |
| 8 | 1.19 | 1.05 | .69 | 1.55 | .81 | 1.13 | 2.99 | 2.87 | 1.13 | 2.82 | 2.18 | 2.17 |
| 9 | 2.45 | 1.28 | 1.00 | 1.61 | 1.47 | 2.78 | 4.28 | 3.32 | 2.07 | 2.59 | 2.02 | 1.84 |
| 10 | 2.61 | .97 | 1.99 | 1.95 | 1.70 | 1.34 | 2.17 | 1.97 | 1.04 | 1.45 | 1.91 | 1.18 |
| 11 | 2.41 | 1.20 | 1.47 | 1.57 | 1.41 | 4.61 | 1.26 | 1.83 | 1.51 | 1.09 | 4.56 | 1.23 |
| 12 | 1.74 | 2.63 | 2.07 | .88 | 1.16 | 2.72 | .96 | 1.72 | 2.78 | 3.59 | 2.09 | .57 |
| 13 | 1.29 | 1.31 | 2.19 | 2.17 | 2.23 | 2.61 | 2.13 | .91 | 1.83 | 1.43 | 2.48 | 1.33 |
| 14 | 1.65 | 1.45 | 1.55 | 1.29 | 1.29 | 1.71 | 4.19 | 2.63 | 3.36 | 1.95 | 2.19 | 2.27 |
| 15 | 2.40 | .74 | 1.74 | 3.04 | 1.91 | 1.34 | 4.09 | 1.52 | 1.91 | 1.81 | 1.52 | .76 |
| 16 | 1.67 | 2.40 | 1.52 | 2.26 | 2.81 | .85 | 4.43 | .75 | 1.97 | 2.20 | 2.69 | 1.36 |
| 17 | 1.13 | 1.16 | 1.03 | 3.00 | 2.72 | 1.31 | 4.74 | 1.28 | 2.56 | 2.19 | 2.02 | 1.07 |
| 18 | 3.19 | 1.93 | .37 | 2.15 | 1.39 | 2.04 | 2.36 | 1.11 | 2.72 | 1.24 | 3.11 | 2.24 |
| 19 | 1.50 | 1.26 | 1.59 | 1.55 | 1.79 | 2.59 | 1.50 | 1.51 | 3.68 | 2.76 | 2.54 | .79 |
| 20 | 1.57 | 1.45 | 1.20 | 1.59 | 2.15 | 2.19 | 3.67 | 2.43 | 3.74 | 3.24 | 2.26 | .50 |
| 21 | 1.98 | 1.39 | 2.15 | 1.75 | 1.91 | 2.30 | 2.20 | 2.72 | 2.02 | 3.26 | 1.90 | 2.81 |
| 22 | 2.10 | 1.70 | 1.65 | .62 | 1.41 | 1.17 | 2.80 | 4.64 | 3.24 | 2.91 | 1.83 | 2.94 |
| 23 | 1.82 | 2.14 | .61 | 1.46 | 4.93 | 1.18 | 2.43 | 2.57 | 2.88 | 3.91 | 1.79 | 1.74 |
| 24 | 1.54 | 1.80 | 1.55 | 1.75 | 3.71 | 1.45 | 2.06 | 3.36 | 4.40 | 1.80 | 1.90 | 1.49 |
| 25 | 2.71 | 2.69 | 2.03 | 3.26 | 2.48 | 1.03 | 1.57 | 1.96 | 1.31 | 2.83 | 1.59 | 2.33 |
| 26 | 2.63 | 1.92 | 1.54 | 2.57 | 3.48 | .93 | 3.58 | 1.00 | 1.59 | 2.74 | 2.12 | 2.48 |
| 27 | 2.50 | 2.16 | 1.25 | 2.55 | 1.49 | 2.20 | 2.63 | 1.70 | 3.04 | 2.67 | 2.46 | 2.82 |
| 28 | 3.51 | 1.86 | 1.40 | 1.79 | 1.24 | 2.68 | 2.14 | 3.44 | 1.31 | 2.56 | 2.69 | 2.60 |
| 29 | 2.81 | .21 | .90 | 2.99 | 2.17 | .91 | 3.93 | 3.18 | 3.41 | 2.11 | 2.41 | 1.78 |
| 30 | 1.87 | - | .75 | 3.50 | 1.51 | 2.61 | 2.19 | 2.21 | 1.75 | 1.78 | 1.28 | 3.12 |
| 31 | 3.06 | - | 2.10 | - | .88 | - | 2.83 | 1.11 | - | 2.80 | - | 2.49 |

Table IVa. 35-year daily totals of rainfall,(in inches),1916-1950

Sandringham

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.40 | 2.09 | 1.63 | 1.49 | 1.43 | 2.22 | 1.99 | 3.57 | 4.32 | 2.90 | 4.95 | 2.19 |
| 2 | 3.49 | 2.03 | 1.57 | 3.22 | 1.40 | 3.28 | 1.36 | 4.33 | 3.16 | 1.43 | 3.45 | 3.53 |
| 3 | 2.61 | 3.95 | .76 | 3.08 | 1.55 | 2.41 | 3.90 | 2.46 | 4.07 | 3.13 | 3.80 | 1.85 |
| 4 | 2.50 | 1.47 | 2.29 | 2.97 | 1.41 | 1.65 | 2.90 | 1.66 | 2.82 | 2.56 | 2.60 | 2.78 |
| 5 | 2.93 | 2.78 | 1.50 | 2.45 | 3.43 | 1.71 | 2.47 | 2.21 | 2.73 | 1.41 | 3.72 | 2.56 |
| 6 | 2.77 | 2.01 | 1.79 | 2.20 | 2.31 | 2.50 | 3.19 | 1.54 | 2.48 | 2.11 | 2.71 | 1.85 |
| 7 | 3.96 | 2.85 | 2.68 | 1.91 | 2.99 | 1.51 | 4.09 | 2.68 | 1.60 | 2.60 | 3.48 | 1.52 |
| 8 | 2.16 | 2.52 | .94 | 1.78 | 1.55 | 1.22 | 2.56 | 5.41 | 1.10 | 3.48 | 3.30 | 2.77 |
| 9 | 3.05 | 2.79 | 2.21 | 2.78 | 1.65 | 1.43 | 3.11 | 3.00 | 2.36 | 3.54 | 3.40 | 2.59 |
| 10 | 3.16 | 2.50 | 2.06 | 2.79 | 1.69 | 2.75 | 2.94 | 3.50 | 1.36 | 2.10 | 3.03 | 2.18 |
| 11 | 3.31 | 1.95 | 2.02 | 2.09 | 2.28 | 2.11 | 2.02 | 1.91 | 1.95 | 2.95 | 4.49 | 2.69 |
| 12 | 2.62 | 3.20 | 2.09 | 2.01 | 2.39 | 2.64 | 2.51 | 2.87 | 3.32 | 3.45 | 2.96 | 1.71 |
| 13 | 1.79 | 1.51 | 1.94 | 2.11 | 1.27 | 4.05 | 2.04 | 1.72 | 3.06 | 1.25 | 3.54 | 2.28 |
| 14 | 3.06 | 1.90 | 2.00 | 2.17 | 1.75 | 2.62 | 2.68 | 2.19 | 3.80 | 2.12 | 1.77 | 2.63 |
| 15 | 2.80 | 1.55 | 1.98 | 3.77 | 1.47 | 2.33 | 7.30 | 1.91 | 2.19 | 1.53 | 2.53 | 1.53 |
| 16 | 1.86 | 2.80 | 2.15 | 3.37 | 2.52 | 1.67 | 3.38 | .78 | 2.55 | 2.29 | 2.76 | 2.54 |
| 17 | 2.03 | 1.88 | 2.10 | 3.20 | 3.72 | 1.63 | 4.76 | 3.07 | 2.88 | 3.12 | 3.27 | 1.69 |
| 18 | 2.67 | 2.17 | .62 | 3.17 | 1.92 | 4.49 | 4.18 | 2.80 | 2.47 | 2.38 | 4.73 | 2.52 |
| 19 | 2.88 | 1.91 | 2.16 | 2.55 | 2.36 | 3.04 | 2.86 | 2.43 | 3.01 | 2.71 | 2.93 | 2.02 |
| 20 | 1.95 | 2.41 | 1.38 | 2.18 | 1.81 | 2.11 | 1.95 | 3.93 | 3.27 | 3.46 | 3.55 | 1.29 |
| 21 | 2.13 | 1.47 | 2.09 | 1.29 | 1.48 | 1.86 | 3.74 | 2.56 | 1.83 | 3.59 | 4.19 | 4.41 |
| 22 | 2.83 | 2.31 | 2.08 | 1.31 | 3.63 | 1.78 | 2.78 | 2.95 | 3.33 | 3.74 | 2.15 | 3.89 |
| 23 | 2.70 | 1.79 | 1.45 | 2.34 | 5.91 | 1.16 | 3.37 | 3.47 | 2.92 | 3.72 | 3.03 | 2.67 |
| 24 | 2.11 | 2.91 | 1.44 | 1.94 | 2.91 | 2.62 | 1.99 | 4.16 | 4.11 | 2.87 | 2.94 | 1.96 |
| 25 | 3.34 | 2.53 | 2.73 | 3.24 | 3.68 | 1.47 | 2.63 | 1.79 | 2.60 | 3.23 | 2.03 | 2.74 |
| 26 | 2.83 | 3.35 | 1.31 | 2.25 | 3.39 | 1.87 | 2.12 | 1.89 | 2.80 | 4.20 | 3.03 | 3.21 |
| 27 | 1.99 | 2.73 | 1.94 | 2.21 | 2.11 | 2.00 | 3.74 | 1.54 | 3.35 | 3.57 | 2.65 | 2.55 |
| 28 | 4.05 | 2.92 | 1.67 | 1.37 | 1.58 | 2.90 | 3.29 | 4.47 | 2.00 | 4.29 | 3.89 | 3.42 |
| 29 | 3.34 | .67 | 1.91 | 2.42 | 2.11 | 2.29 | 3.57 | 3.07 | 2.85 | 3.78 | 2.95 | 3.25 |
| 30 | 2.49 | - | 1.08 | 2.32 | 2.62 | 3.63 | 1.35 | 2.65 | 3.09 | 2.63 | 2.25 | 3.93 |
| 31 | 3.72 | - | 1.36 | - | 1.44 | - | 4.04 | 1.63 | - | 3.31 | - | 4.09 |

Table IVb Rainfall totals in inches, divided by 35, thus giving 35-year means ranging from 'trace' to .70 in., for use with table IVa.

| Totals in inches x | 35 yr means $\bar{x}/_{35}$ | Totals in inches x | 35 yr means $\bar{x}/_{35}$ |
|---|---|---|---|
| - .17 | 'trace' | 12.43 - 12.77 | .36 |
| .18 - .52 | .01 | 12.78 - 13.12 | .37 |
| .53 - .87 | .02 | 13.13 - 13.47 | .38 |
| .88 - 1.22 | .03 | 13.48 - 13.82 | .39 |
| 1.23 - 1.57 | .04 | 13.83 - 14.17 | .40 |
| 1.58 - 1.92 | .05 | 14.18 - 14.52 | .41 |
| 1.93 - 2.27 | .06 | 14.53 - 14.87 | .42 |
| 2.28 - 2.62 | .07 | 14.88 - 15.22 | .43 |
| 2.63 - 2.97 | .08 | 15.23 - 15.57 | .44 |
| 2.98 - 3.32 | .09 | 15.58 - 15.92 | .45 |
| 3.33 - 3.67 | .10 | 15.93 - 16.27 | .46 |
| 3.68 - 4.02 | .11 | 16.28 - 16.62 | .47 |
| 4.03 - 4.37 | .12 | 16.63 - 16.97 | .48 |
| 4.38 - 4.72 | .13 | 16.98 - 17.32 | .49 |
| 4.73 - 5.07 | .14 | 17.33 - 17.67 | .50 |
| 5.08 - 5.42 | .15 | 17.68 - 18.02 | .51 |
| 5.43 - 5.77 | .16 | 18.03 - 18.37 | .52 |
| 5.78 - 6.12 | .17 | 18.38 - 18.72 | .53 |
| 6.13 - 6.47 | .18 | 18.73 - 19.07 | .54 |
| 6.48 - 6.82 | .19 | 19.08 - 19.42 | .55 |
| 6.83 - 7.17 | .20 | 19.43 - 19.77 | .56 |
| 7.18 - 7.52 | .21 | 19.78 - 20.12 | .57 |
| 7.53 - 7.87 | .22 | 20.13 - 20.47 | .58 |
| 7.88 - 8.22 | .23 | 20.48 - 20.82 | .59 |
| 8.23 - 8.57 | .24 | 20.83 - 21.17 | .60 |
| 8.58 - 8.92 | .25 | 21.18 - 21.52 | .61 |
| 8.93 - 9.27 | .26 | 21.53 - 21.87 | .62 |
| 9.28 - 9.62 | .27 | 21.88 - 22.22 | .63 |
| 9.63 - 9.97 | .28 | 22.23 - 22.57 | .64 |
| 9.98 - 10.32 | .29 | 22.58 - 22.92 | .65 |
| 10.33 - 10.67 | .30 | 22.93 - 23.27 | .66 |
| 10.68 - 11.02 | .31 | 23.28 - 23.62 | .67 |
| 11.03 - 11.37 | .32 | 23.63 - 23.97 | .68 |
| 11.38 - 11.72 | .33 | 23.98 - 24.32 | .69 |
| 11.73 - 12.07 | .34 | 24.33 - 24.67 | .70 |
| 12.08 - 12.42 | .35 | | |

Table V. Accumulated Frequencies of Daily Rainfall (in inches), 1910-1950

Bedford

| | Daily Totals | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | All Months |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV | 3.40 | | | | | | | | 1 | | | | | 1 |
| | 2.50 | | | | | | | | 1 | | | | | 1 |
| | 2.40 | | | | | | | | 1 | | | | | 1 |
| | 2.30 | | | | | | | | 1 | | | | | 1 |
| | 2.20 | | | | | | | | 1 | | | | | 1 |
| | 2.10 | | | | | | | | 1 | | | | | 1 |
| | 2.00 | | | | | | | | 1 | | | | | 1 |
| | 1.90 | | | | | | | | 1 | | | | | 1 |
| | 1.80 | | | | | | | | 1 | | | | | 1 |
| | 1.70 | | | | | | | | 1 | | | | | 1 |
| | 1.60 | | | | | | | | 1 | 1 | | | | 2 |
| | 1.50 | | | | | | | 1 | 1 | 1 | | | | 3 |
| | 1.40 | | | | | | | 1 | 1 | 1 | | | | 3 |
| | 1.30 | | | | 1 | | | 2 | 1 | 1 | | | | 5 |
| | 1.20 | | | | 1 | 1 | | 4 | 1 | 1 | 1 | | | 9 |
| | 1.10 | | | 2 | 1 | 2 | 1 | 5 | 4 | 5 | 1 | 1 | | 22 |
| | 1.00 | 1 | | 2 | 1 | 4 | 1 | 7 | 4 | 8 | 2 | 1 | 1 | 32 |
| | 0.90 | 2 | 2 | 3 | 3 | 4 | 1 | 7 | 8 | 9 | 4 | 2 | 1 | 46 |
| | 0.80 | 5 | 3 | 5 | 3 | 6 | 2 | 10 | 10 | 15 | 6 | 7 | 2 | 74 |
| | 0.70 | 7 | 5 | 7 | 3 | 9 | 3 | 16 | 14 | 16 | 11 | 9 | 4 | 104 |
| | 0.60 | 9 | 5 | 10 | 5 | 14 | 4 | 25 | 20 | 23 | 19 | 15 | 9 | 158 |
| | 0.50 | 13 | 10 | 14 | 9 | 23 | 11 | 34 | 27 | 31 | 25 | 26 | 12 | 235 |
| | 0.40 | 28 | 22 | 23 | 23 | 37 | 23 | 43 | 37 | 42 | 34 | 42 | 21 | 375 |
| | 0.30 | 47 | 32 | 40 | 49 | 69 | 47 | 68 | 56 | 62 | 65 | 76 | 46 | 657 |
| | 0.20 | 91 | 72 | 64 | 84 | 106 | 85 | 116 | 103 | 112 | 124 | 122 | 95 | 1174 |
| | 0.10 | 208 | 158 | 136 | 203 | 203 | 168 | 201 | 186 | 197 | 202 | 238 | 198 | 2298 |
| III | 0.005 | 545 | 452 | 414 | 462 | 416 | 389 | 416 | 435 | 439 | 452 | 524 | 499 | 5443 |
| *V | 0.004 | 540 | 537 | 671 | 588 | 669 | 661 | 669 | 650 | 611 | 633 | 526 | 586 | 7341 |
| Total No. of days | | 1085 | 989 | 1085 | 1050 | 1085 | 1050 | 1085 | 1085 | 1050 | 1085 | 1050 | 1085 | 12784 |

* Including rainless days.



G.18557/CJH/8/63/75

Table V. Accumulated Frequencies of Daily Rainfall (in inches), 1916-1950

Cambridge

| Daily Totals | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | All Months |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV 2.50 | | | | | | | | | | | | | |
| 2.40 | | | | | | | | | | | | | |
| 2.30 | | | | | | | | | | | | | |
| 2.20 | | | | | | | | | | | | | |
| 2.10 | | | | | | | | | | | | | |
| 2.00 | | | | | | | | 1 | | | | | 1 |
| 1.90 | | | | | | | 2 | 1 | | | | | 3 |
| 1.80 | | | | | | | 2 | 1 | | | | | 3 |
| 1.70 | | | | | 1 | | 2 | 1 | 2 | | | | 6 |
| 1.60 | | | | | 1 | | 4 | 2 | 2 | | | | 9 |
| 1.50 | | | | 1 | 1 | | 4 | 2 | 3 | | | | 11 |
| 1.40 | | | | 1 | 1 | | 6 | 3 | 4 | 1 | | | 16 |
| 1.30 | | | | 1 | 1 | 1 | 7 | 5 | 4 | 1 | | | 20 |
| 1.20 | | | | 1 | 1 | 1 | 8 | 5 | 4 | 1 | | | 21 |
| 1.10 | | | | 2 | 1 | 2 | 9 | 5 | 5 | 3 | 1 | | 28 |
| 1.00 | 1 | | | 2 | 2 | 2 | 14 | 7 | 9 | 3 | 3 | | 43 |
| 0.90 | 2 | | 1 | 2 | 3 | 3 | 17 | 11 | 12 | 3 | 3 | 2 | 59 |
| 0.80 | 7 | 1 | 1 | 4 | 4 | 5 | 22 | 13 | 13 | 5 | 4 | 2 | 81 |
| 0.70 | 9 | 1 | 5 | 6 | 9 | 6 | 25 | 14 | 16 | 8 | 8 | 2 | 109 |
| 0.60 | 12 | 5 | 7 | 9 | 13 | 9 | 31 | 18 | 23 | 25 | 18 | 4 | 174 |
| 0.50 | 20 | 10 | 14 | 17 | 28 | 15 | 48 | 21 | 35 | 32 | 30 | 11 | 281 |
| 0.40 | 27 | 19 | 25 | 29 | 43 | 25 | 55 | 36 | 49 | 42 | 43 | 22 | 415 |
| 0.30 | 60 | 45 | 44 | 58 | 72 | 54 | 88 | 66 | 80 | 79 | 75 | 54 | 775 |
| 0.20 | 151 | 104 | 86 | 129 | 112 | 113 | 165 | 130 | 139 | 157 | 150 | 121 | 1557 |
| 0.10 | 272 | 199 | 175 | 243 | 210 | 196 | 247 | 222 | 205 | 227 | 257 | 238 | 2691 |
| III 0.005 | 563 | 435 | 406 | 481 | 390 | 372 | 438 | 435 | 428 | 442 | 519 | 532 | 5441 |
| * IA 0.004 | 522 | 554 | 679 | 569 | 695 | 678 | 647 | 650 | 622 | 643 | 531 | 553 | 7343 |
| Total No. of days | 1085 | 989 | 1085 | 1050 | 1085 | 1050 | 1085 | 1085 | 1050 | 1085 | 1050 | 1085 | 12784 |

* Including rainless days.



G.18557/CJH/8/63/75.

Table V. Accumulated Frequencies of Daily Rainfall (in inches), 1916-1950

Thetford

| Daily Totals | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | All Months |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV 2.60 | | | | | | | | 1 | | | | | 1 |
| 2.50 | | | | | | | | 1 | | | | | 1 |
| 2.40 | | | | | | | | 1 | | | | | 1 |
| 2.30 | | | | | | | | 2 | | | | | 2 |
| 2.20 | | | | | | | | 2 | | | | | 2 |
| 2.10 | | | | | | | | 3 | | | | | 3 |
| 2.00 | | | | | | | | 3 | | | | | 3 |
| 1.90 | | | | | | | | 3 | | | | | 3 |
| 1.80 | | | | | | | 2 | 3 | | | | | 5 |
| 1.70 | | | | | | | 3 | 3 | | | | | 6 |
| 1.60 | | | | | | | 3 | 3 | | | | | 6 |
| 1.50 | | | | | | | 3 | 3 | | | | | 6 |
| 1.40 | 1 | | | | | | 4 | 3 | | | | | 8 |
| 1.30 | 1 | | | | 1 | | 5 | 3 | 1 | 1 | | | 12 |
| 1.20 | 1 | | | 1 | 1 | 1 | 7 | 3 | 2 | 1 | | | 17 |
| 1.10 | 1 | | | 2 | 2 | 1 | 12 | 6 | 3 | 2 | 1 | | 30 |
| 1.00 | 2 | | | 2 | 3 | 1 | 15 | 8 | 3 | 3 | 1 | | 38 |
| 0.90 | 3 | | 2 | 2 | 5 | 2 | 17 | 11 | 6 | 4 | 3 | | 55 |
| 0.80 | 4 | | 2 | 2 | 7 | 4 | 23 | 13 | 9 | 7 | 8 | 1 | 80 |
| 0.70 | 7 | 3 | 3 | 2 | 9 | 5 | 27 | 15 | 14 | 10 | 13 | 5 | 113 |
| 0.60 | 9 | 7 | 4 | 6 | 14 | 9 | 36 | 22 | 23 | 14 | 20 | 11 | 175 |
| 0.50 | 12 | 10 | 11 | 9 | 22 | 16 | 48 | 31 | 33 | 21 | 35 | 17 | 265 |
| 0.40 | 27 | 22 | 20 | 25 | 32 | 31 | 60 | 53 | 53 | 44 | 50 | 31 | 448 |
| 0.30 | 63 | 35 | 34 | 49 | 54 | 49 | 86 | 83 | 78 | 76 | 80 | 59 | 746 |
| 0.20 | 130 | 92 | 78 | 124 | 95 | 98 | 133 | 131 | 130 | 139 | 145 | 118 | 1413 |
| 0.10 | 277 | 196 | 182 | 249 | 204 | 197 | 241 | 233 | 236 | 240 | 266 | 248 | 2814 |
| IV 0.005 | 651 | 540 | 477 | 531 | 463 | 444 | 503 | 505 | 519 | 597 | 655 | 631 | 6516 |
| * VI 0.004 | 434 | 449 | 608 | 519 | 622 | 606 | 582 | 580 | 531 | 488 | 395 | 454 | 6268 |
| Total No. of days | 1085 | 989 | 1085 | 1050 | 1085 | 1050 | 1085 | 1085 | 1050 | 1085 | 1050 | 1085 | 12784 |

* Including rainless days.



G.18557/CJH/8/63/75.

Table V. Accumulated Frequencies of Daily Rainfall, (in inches), 1916-1950

Sandringham

| Daily Totals | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | All Months |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IV 2.50 | | | | | | | | | | | | | |
| 2.40 | | | | | | | | | | | | | |
| 2.30 | | | | | | | | | | | | | |
| 2.20 | | | | | | | | | | | | | |
| 2.10 | | | | | | | | | | | | | |
| 2.00 | | | | | | | | | | | | | |
| 1.90 | | | | | | | 1 | | | | | | 1 |
| 1.80 | | | | | | | 1 | 1 | | 1 | | | 3 |
| 1.70 | | | | | | | 1 | 1 | | 1 | | | 3 |
| 1.60 | | | | | | | 1 | 1 | | 1 | | | 3 |
| 1.50 | | | | 1 | | | 2 | 2 | 1 | 1 | | | 7 |
| 1.40 | | | | 1 | | | 2 | 2 | 2 | 2 | | | 9 |
| 1.30 | | | | 1 | | | 5 | 3 | 2 | 2 | 1 | | 14 |
| 1.20 | | 1 | | 1 | | | 6 | 4 | 4 | 2 | 1 | | 19 |
| 1.10 | | 1 | | 1 | 1 | 1 | 6 | 5 | 4 | 2 | 2 | | 23 |
| 1.00 | 1 | 1 | | 1 | 3 | 2 | 9 | 6 | 5 | 3 | 3 | 1 | 35 |
| 0.90 | 2 | 1 | | 1 | 5 | 5 | 15 | 11 | 5 | 5 | 5 | 1 | 56 |
| 0.80 | 5 | 1 | 1 | 2 | 8 | 6 | 18 | 18 | 7 | 8 | 6 | 2 | 82 |
| 0.70 | 8 | 3 | 5 | 2 | 15 | 9 | 26 | 21 | 14 | 13 | 9 | 4 | 129 |
| 0.60 | 12 | 8 | 11 | 4 | 19 | 15 | 34 | 28 | 22 | 21 | 15 | 9 | 198 |
| 0.50 | 21 | 15 | 14 | 10 | 25 | 25 | 50 | 36 | 35 | 36 | 27 | 13 | 307 |
| 0.40 | 36 | 32 | 19 | 34 | 36 | 45 | 65 | 62 | 57 | 52 | 57 | 31 | 526 |
| 0.30 | 70 | 57 | 42 | 63 | 75 | 66 | 93 | 93 | 94 | 92 | 105 | 69 | 919 |
| 0.20 | 144 | 103 | 85 | 132 | 124 | 117 | 150 | 134 | 134 | 150 | 158 | 141 | 1572 |
| 0.10 | 307 | 234 | 192 | 260 | 224 | 210 | 257 | 222 | 236 | 270 | 316 | 279 | 3007 |
| III 0.005 | 681 | 552 | 512 | 548 | 457 | 447 | 519 | 502 | 534 | 619 | 665 | 662 | 6688 |
| * II 0.004 | 404 | 437 | 573 | 502 | 628 | 603 | 566 | 583 | 516 | 466 | 395 | 423 | 6096 |
| Total No. of days. | 1085 | 989 | 1085 | 1050 | 1085 | 1050 | 1085 | 1085 | 1050 | 1085 | 1050 | 1085 | 12784 |

* Including rainless days,

G.18557/CJH/8/63/75.

TABLE VI. Maximum and Minimum Monthly and Annual Totals of Rainfall (in inches), 1916–50, with supplementary list covering extremes for the 50-year period, 1911–60.

| | | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Bedford** | | | | | | | | | | | | | | |
| 1916–50 | Max. | 1919<br>3.54 | 1937<br>3.29 | 1947<br>4.58 | 1926<br>2.96 | 1937<br>3.95 | 1936<br>3.98 | 1950<br>4.12 | 1948<br>5.00 | 1918<br>5.72 | 1949<br>4.56 | 1940<br>6.08 | 1919<br>3.62 | 1937<br>27.34 |
| | Min | 1932<br>0.69 | 1932<br>0.16 | 1929<br>0.04 | 1938<br>0.05 | 1934<br>0.55 | 1925<br>0.01 | 1921<br>0.16 | 1947<br>0.05 | 1929<br>0.02 | 1947<br>0.24 | 1945<br>0.34 | 1917<br>1932<br>0.37 | 1921<br>11.54 |
| Other Extremes 1911–60 | Max | –<br>– | –<br>– | –<br>– | –<br>– | –<br>– | –<br>– | 1915<br>4.79 | 1912<br>6.45 | –<br>– | –<br>– | –<br>– | 1914<br>3.89 | 1960<br>29.45 |
| | Min | 1957<br>0.66 | 1959<br>0.10 | –<br>– | –<br>– | 1956<br>0.50 | –<br>– | –<br>– | –<br>– | –<br>– | –<br>– | –<br>– | 1953<br>0.33 | –<br>– |
| **Cambridge** | | | | | | | | | | | | | | |
| 1916–50 | Max | 1934<br>4.02 | 1916<br>3.54 | 1947<br>4.13 | 1920<br>3.45 | 1932<br>4.05 | 1936<br>3.53 | 1950<br>7.58 | 1948<br>5.50 | 1918<br>6.63 | 1923<br>3.84 | 1940<br>5.65 | 1919<br>3.63 | 1924<br>28.67 |
| | Min | 1932<br>0.79 | 1932<br>0.25 | 1929<br>0.03 | 1938<br>0.17 | 1919<br>0.23 | 1940<br>0.37 | 1921<br>0.32 | 1940<br>1947<br>0.17 | 1929<br>0.10 | 1947<br>0.21 | 1945<br>0.20 | 1926<br>0.27 | 1930<br>10.36 |
| Other Extremes 1911–60 | Max | –<br>– | –<br>– | –<br>– | –<br>– | –<br>– | 1958<br>5.27 | –<br>– | 1912<br>7.22 | –<br>– | 1960<br>4.22 | –<br>– | 1914<br>5.47 | 1958<br>29.01 |
| | Min | –<br>– | 1959<br>0.11 | –<br>– | 1957<br>0.10 | –<br>– | –<br>– | –<br>– | –<br>– | 1959<br>0.05 | –<br>– | –<br>– | –<br>– | –<br>– |

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TABLE VI. Maximum and Minimum Monthly and Annual Totals of Rainfall (in inches), 1916-50, with supplementary list covering extremes for the 50-year period, 1911-60. (Cont.)

| | | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Thetford** | | | | | | | | | | | | | | |
| 1916-50 | Max | 1939<br>4.83 | 1916<br>4.34 | 1947<br>4.10 | 1931<br>4.06 | 1932<br>3.59 | 1927<br>4.37 | 1930<br>4.46 | 1931<br>1941<br>4.67 | 1918<br>6.26 | 1939<br>4.66 | 1940<br>6.27 | 1919<br>4.23 | 1916<br>30.63 |
| | Min | 1949<br>0.70 | 1921<br>0.39 | 1929<br>0.10 | 1938<br>0.54 | 1919<br>0.42 | 1921<br>0.25 | 1935<br>0.55 | 1947<br>0.10 | 1941<br>0.47 | 1919<br>0.05 | 1920<br>0.76 | 1933<br>0.55 | 1921<br>14.91 |
| Other Extremes 1911-60 | Max | -<br>- | -<br>- | -<br>- | -<br>- | -<br>- | -<br>- | -<br>- | 1912<br>9.16 | -<br>- | -<br>- | -<br>- | 1914<br>5.67 | 1912<br>34.99 |
| | Min | -<br>- | 1959<br>0.25 | -<br>- | 1954<br>0.27 | 1959<br>0.31 | -<br>- | 1955<br>0.24 | -<br>- | 1959<br>0.03 | -<br>- | 1956<br>0.60 | -<br>- | -<br>- |
| **Sandringham** | | | | | | | | | | | | | | |
| 1916-50 | Max | 1939<br>4.85 | 1950<br>3.98 | 1947<br>4.71 | 1935<br>3.55 | 1948<br>4.22 | 1927<br>4.42 | 1936<br>6.64 | 1917<br>5.75 | 1918<br>6.09 | 1924<br>4.77 | 1940<br>5.70 | 1929<br>4.53 | 1937<br>33.76 |
| | Min | 1950<br>0.93 | 1929<br>0.61 | 1929<br>0.29 | 1938<br>0.68 | 1947<br>0.31 | 1940<br>0.34 | 1935<br>0.31 | 1947<br>0.03 | 1941<br>0.62 | 1947<br>0.32 | 1920<br>1.02 | 1932<br>0.75 | 1921<br>16.76 |
| Other Extremes 1911-60 | Max | -<br>- | 1958<br>4.08 | -<br>- | -<br>- | -<br>- | -<br>- | -<br>- | 1912<br>8.36 | -<br>- | -<br>- | -<br>- | 1914<br>5.10 | 1912<br>37.12 |
| | Min | -<br>- | 1959<br>0.20 | -<br>- | 1912<br>0.33 | -<br>- | -<br>- | 1911<br>0.28 | -<br>- | 1959<br>0.13 | -<br>- | 1955<br>0.27 | 1913<br>0.54 | -<br>- |

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TABLE VII. Maximum Daily Rainfall (in inches), 1916-1950 with additional maxima for the 50-year period 1911-60.

| | | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bedford | | | | | | | | | | | | | |
| 1916-50 | Max | 1918 | 1926 | 1916 | 1918 | 1950 | 1936 | 1923 | 1948 | 1918 | 1949 | 1940 | 1919 |
| | | 1.01 | 0.98 | 1.13 | 1.35 | 1.29 | 1.13 | 1.50 | 3.46 | 1.60 | 1.29 | 1.10 | 1.00 |
| Other Extremes 1911-60 | Max | - | - | - | - | - | 1958 | - | - | - | 1914 | - | 1954 |
| | | - | - | - | - | - | 1.40 | - | - | - | 1.36 | - | 1.32 |
| Cambridge | | | | | | | | | | | | | |
| 1916-50 | Max | 1939 | 1925 | 1940 | 1918 | 1929 | 1936 | 1949 | 1948 | 1935 | 1924 | 1940 | 1919 |
| | | 1.06 | 0.81 | 0.98 | 1.58 | 1.74 | 1.35 | 1.96 | 2.09 | 1.78 | 1.40 | 1.11 | 0.91 |
| Other Extremes 1911-60 | Max | - | 1958 | - | - | - | - | 1959 | - | - | - | - | 1914 |
| | | - | 0.98 | - | - | - | - | 2.25 | - | - | - | - | 1.41 |
| Thetford | | | | | | | | | | | | | |
| 1916-50 | Max. | 1939 | 1916 | 1947 | 1916 | 1918 | 1926 | 1927 | 1938 | 1918 | 1924 | 1940 | 1928 |
| | | 1.46 | 0.73 | 0.99 | 1.26 | 1.35 | 1.24 | 1.89 | 2.63 | 1.30 | 1.37 | 1.15 | 0.89 |
| Other Extremes 1911-60 | Max | - | 1958 | - | - | - | - | 1959 | 1912 | - | - | 1952 | 1959 |
| | | - | 1.80 | - | - | - | - | 2.18 | 3.53 | - | - | 1.62 | 0.90 |
| Sandringham | | | | | | | | | | | | | |
| 1916-50 | Max | 1939 | 1946 | 1941 | 1918 | 1948 | 1929 | 1936 | 1917 | 1922 | 1941 | 1939 | 1925 |
| | | 1.09 | 1.28 | 0.82 | 1.58 | 1.18 | 1.11 | 1.96 | 1.85 | 1.52 | 1.87 | 1.36 | 1.09 |
| Other Extremes 1911-60 | Max | 1959 | - | - | - | - | 1911 | - | 1912 | - | - | 1915 | 1914 |
| | | 1.34 | - | - | - | - | 1.78 | - | 2.91 | - | - | 1.93 | 1.32 |

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Appendix I

River Board Area of Great Ouse.

Intense falls of Rain in 2 hours or less, 1860 - 1960.
Extracted from British Rainfall.

(Arranged chronologically, in county order).

Key at end.

| Year | Class | Station | Riv. Div. | Date | Amt. in. | D'r'n min. | Rate in/hr |
|---|---|---|---|---|---|---|---|
| Northamptonshire | | | | | | | |
| 1940 | N | Brackley, Glebe Ho. | 3 | July 10 | 1.00 | 30 | 2.00 |
| Buckinghamshire | | | | | | | |
| 1872 | N | Winslow, Addington Manor | 5 | Aug. 7 | 1.50 | 120 | .75 |
| 1875 | R | Newport Pagnell | 5 | June 29 | 2.00 | 120 | 1.00 |
| 1883 | N | " " | 5 | " 25 | 1.50 | 105 | .86 |
| 1897 | R | " " | 5 | Sept.29 | 1.89 | 45 | 2.52 |
| 1898 | N | " " , Brayfield Ho. | 5 | Aug. 6 | .85 | 40 | 1.28 |
| 1909 | N | Buckingham, Adstock Fields | 5 | Sept.17 | 1.15 | 40 | 1.73 |
| 1913 | R | Newport Pagnell, The Croft | 5 | Oct. 2 | 1.25 | 30 | 2.50 |
| 1916 | N | Oving Ho. | 5 | July 23 | 1.00 | 60 | 1.00 |
| 1935 | R | Turvey, Brayfield Ho. | 5 | Aug. 8 | 1.82 | 90 | 1.21 |
| 1936 | N | Buckingham, Market Hill | 5 | May 6 | 1.01 | 30 | 2.02 |
| 1949 | N | Newport Pagnell, Wolverton Rd. | 5 | " 20 | .98 | 60 | .98 |
| Bedfordshire | | | | | | | |
| 1872 | R | Woburn, Hayfield | 3 | Aug. 7 | 1.25 | 30 | 2.50 |
| 1874 | N | Aspley Guise, Oaklands | 3 | July 10 | 1.25 | 60 | 1.25 |
| 1875 | VR | Cardington | 3 | June 29 | 2.50 | 60 | 2.50 |
| 1876 | R | Bedford | 3 | July 23 | 1.85 | 60 | 1.85 |
| 1878 | R | Wobourn, Huloote Rec. | 3 | Aug. 23 | 2.25 | 95 | 1.42 |
| 1880 | N | Ampthill, Silsoe | 3 | " 6 | 1.18 | 60 | 1.18 |
| 1889 | N | Biggleswade, Langford | 3 | July 12 | 1.20 | 90 | .80 |
| 1898 | N | Woburn, Experimental Fm. | 3 | Aug. 6 | 1.05 | 30 | 2.10 |
| 1900 | R | Shillington | 3 | July 16 | 1.25 | 20 | 3.75 |
| 1903 | VR | Bedford, Milton Ernest | 3 | June 11 | 2.77 | 90 | 1.85 |
| 1914 | R | Biggleswade Waterworks | 3 | July 1 | 1.83 | 65 | 1.69 |
| 1918 | N | Bedford | 3 | " 18 | 1.16 | 67 | 1.04 |
| 1924 | R | Woburn, Crawley Mill Fm. | 3 | May 20 | 1.06 | 20 | 3.18 |
| " | R | Shillington, Windmill Lo. | 3 | " 20 | 2.00 | 60 | 2.00 |
| " | R | Shefford, Clifton Bury | 3 | " 30 | 2.25 | 120 | 1.13 |
| 1932 | R | Hockliffe, Lyndhurst | 3 | July 11 | 1.50 | 30 | 3.00 |
| " | N | Great Barford Ho. | 3 | Aug. 12 | .98 | 37 | 1.59 |
| 1933 | R | Aspley Guise | 3 | July 15 | 2.14 | 60 | 2.14 |
| 1934 | N | Silsoe, The Red House | 3 | Sept.15 | .78 | 15 | 3.12 |
| 1948 | R | Cranfield | 3 | Aug. 2 | 1.50 | 40 | 2.25 |
| 1949 | R | Leighton Buzzard, Heath Rd. | 3 | July 17 | 1.38 | 30 | 2.76 |
| 1950 | R | Hockliffe, Lyndhurst | 3 | May 21 | 1.75 | 60 | 1.75 |
| 1959 | R | Silsoe, Wrest Park | 3 | July 10 | 1.48 | 30 | 2.96 |
| Huntingdonshire | | | | | | | |
| 1878 | R | Huntingdon | 1 | June 19 | 2.61 | 120 | 1.31 |
| 1884 | R | Alconbury | 1 | July 4 | 1.90 | 45 | 2.53 |
| 1889 | N | St. Neots, Tetworth Hall | 1 | " 12 | 1.00 | 60 | 1.00 |
| 1896 | N | " , Waresley Park | 1 | Sept.11 | 1.75 | 120 | .87 |
| 1906 | N | Somersham Vic. | 1 | June 25 | 1.00 | 60 | 1.00 |

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| Year | Class | Station | Riv. Div. | Date | Amt. in. | D'r'n min. | Rate in/hr |
|---|---|---|---|---|---|---|---|
| Huntingdonshire (continued) | | | | | | | |
| 1913 | R | Brampton Grange | 1 | June 17 | 2.12 | 75 | 1.70 |
| " | VR | Great Paxton | 1 | " 17 | 2.80 | 90 | 1.87 |
| 1920 | N | St. Ives, Boxworth | 1 | May 29 | .75 | 15 | 3.00 |
| 1936 | N | Brampton Soh. | 1 | July 7 | 1.17 | 75 | .94 |
| 1947 | N | Bluntisham Rec. | 1 | June 27 | 1.34 | 90 | .89 |
| 1949 | N | St. Neots, The Square | 1 | July 14 | 1.12 | 35 | 1.92 |
| " | N | Bluntisham Rec. | 1 | " 16 | 1.20 | 90 | .80 |
| 1950 | N | Great Gransden | 1 | May 21 | 1.10 | 30 | 2.20 |
| " | N | Ramsey, Biggin Lane | 1 | " 21 | 1.13 | 40 | 1.69 |
| " | N | Brampton Soh. | 1 | " 21 | 1.03 | 45 | 1.37 |
| " | N | Hemingford Grey | 1 | " 21 | .95 | 45 | 1.27 |
| 1951 | N | Peterborough, Farcet | 1 | Aug. 6 | 1.20 | 50 | 1.44 |
| 1954 | N | St. Ives, Tenterleas | 1 | June 5 | .84 | 20 | 2.52 |
| " | N | St. Neots, Kings Rd. | 1 | Aug. 20 | 1.00 | 60 | 1.00 |
| " | N | Abbots, Ripton Hall | 1 | June 5 | 1.56 | 75 | 1.25 |
| " | VR | Wyton Airfield | 1 | " 5 | 3.15 | 105 | 1.80 |
| 1956 | VR | Hemingford Grey | 1 | July 18 | 3.35 | 90 | 2.23 |
| 1958 | N | St. Ives, Tenterleas | 1 | Sept. 5 | 1.04 | 40 | 1.56 |
| Cambridgeshire | | | | | | | |
| 1880 | R | March | 2 | July 14 | 2.13 | 90 | 1.42 |
| 1883 | N | Cambridge, Beaconsfield | 2 | June 25 | 1.00 | 40 | 1.50 |
| 1888 | N | Ely, Stretham | 2 | " 25 | 1.05 | 20 | 3.15 |
| 1897 | R | " , " Ferry | 2 | Sept.29 | 1.90 | 90 | 1.27 |
| 1898 | N | " " " | 2 | Aug. 6 | .95 | 25 | 2.28 |
| " | N | Longstowe Rec. | 2 | " 6 | .95 | 35 | 1.63 |
| 1900 | N | Odsey, Royston | 2 | July 16 | 1.09 | 30 | 2.18 |
| 1901 | N | Cambridge, Benet Place | 2 | Oct. 2 | 1.00 | 30 | 2.00 |
| 1902 | R | " , Sydney St. | 2 | May 30 | 1.10 | 10 | 6.60 |
| " | R | Trumpington | 2 | " 30 | 1.30 | 20 | 3.90 |
| " | R | Cambridge, Benet Place | 2 | " 30 | 1.30 | 30 | 2.60 |
| 1903 | N | " , Sydney St. | 2 | July 23 | 1.00 | 60 | 1.00 |
| 1907 | N | Wimpole Hall | 2 | Oct. 14 | .82 | 20 | 2.46 |
| 1913 | R | Stapleford Ho. | 2 | June 17 | 1.35 | 30 | 2.70 |
| " | N | Cambridge, Hershel Ho. | 2 | " 17 | .99 | 50 | 1.19 |
| 1915 | N | Boxworth | 2 | July 4 | .76 | 8½ | 5.36 |
| " | N | " | 2 | June 30 | 1.42 | 90 | .95 |
| 1917 | R | Melbourne Vic. | 2 | Aug. 28 | 2.00 | 90 | 1.33 |
| 1927 | R | Fordham, London Ho. | 2 | July 11 | 1.75 | 60 | 1.75 |
| 1933 | N | Oakington | 2 | June 13 | 1.01 | 35 | 1.73 |
| 1936 | N | Stretham Engine | 2 | " 20 | .80 | 30 | 1.60 |
| 1937 | N | Ely | 2 | Aug. 11 | 1.12 | 60 | 1.12 |
| 1939 | R | Oakington | 2 | July 21 | 1.75 | 105 | 1.00 |
| 1947 | R | Ashwell, Odsey | 2 | June 27 | 1.59 | 30 | 3.18 |
| " | N | Chatteris, The Vic. | 2 | " 27 | 1.49 | 120 | .75 |
| 1949 | VR | March | 2 | July 15 | 4.00 | 105 | 2.29 |
| 1951 | N | Cambridge, Oxford Road | 2 | " 31 | .76 | 22 | 2.07 |
| Norfolk | | | | | | | |
| 1867 | R | Brandon, West Tofts | 4 | May 10 | 1.92 | 120 | .96 |
| 1880 | R | Swaffham | 4 | Aug. 7 | 2.18 | 120 | 1.09 |
| 1889 | N | Tilney St. Lawrence, Aylmer Hall | 4 | June 7 | 1.31 | 90 | .87 |
| 1900 | N | Swaffham | 4 | Aug. 21 | 1.09 | 45 | 1.45 |
| 1902 | N | Tilney St. Lawrence, Aylmer Hall | 4 | " 7 | 1.18 | 30 | 2.36 |
| 1906 | N | Swaffham | 4 | " 8 | .85 | 20 | 2.55 |
| 1912 | N | Sporle | 4 | May 22 | 1.10 | 60 | 1.10 |
| 1916 | N | Thetford | 4 | Apr. 27 | 1.26 | 60 | 1.26 |
| 1918 | N | Swaffham | 4 | May 17 | 1.10 | 60 | 1.10 |

| Year | Class | Station | Riv. Div. | Date | Amt. in. | D'r'n min. | Rate in/hr |
|---|---|---|---|---|---|---|---|
| Norfolk (continued) | | | | | | | |
| 1921 | N | Thetford Waterworks | 4 | July 27 | .80 | 30 | 1.60 |
| 1934 | R | " , Lynford Nursery | 4 | June 25 | 1.70 | 60 | 1.70 |
| 1935 | R | Kings Lynn, Narford Hall Gardens | 4 | Sept.22 | 1.46 | 45 | 1.95 |
| " | N | Downham Market | 4 | " 22 | 1.22 | 60 | 1.22 |
| " | R | Thetford Waterworks | 4 | Aug. 13 | 2.16 | 75 | 1.73 |
| 1936 | R | Grimston, School Ho. | 4 | July 7 | 2.07 | 60 | 2.07 |
| 1939 | N | " " " | 4 | " 24 | .63 | 12 | 3.15 |
| " | N | Downham Market | 4 | Sept. 2 | 1.00 | 45 | 1.33 |
| 1947 | N | Thetford Waterworks | 4 | June 27 | .88 | 45 | 1.17 |
| 1949 | N | Kings Lynn, Shouldham | 4 | July 16 | 1.37 | 120 | .69 |
| 1957 | N | Homersfield | 4 | " 20 | .55 | 10 | 3.30 |
| 1959 | R | Thetford Waterworks | 4 | " 11 | 2.10 | 60 | 2.10 |
| " | N | Marham Airfield | 4 | " 11 | 1.39 | 120 | .69 |
| 1960 | R | Downham, Dial Ho. | 4 | Oct. 28 | 1.30 | 25 | 3.12 |
| Suffolk | | | | | | | |
| 1863 | N | Bury St. Edmunds, Westley | 5 | Aug. 29 | .76 | 15 | 3.04 |
| 1865 | R | " " " " | 5 | July 17 | 2.36 | 120 | 1.18 |
| " | N | " " " , Beech Hill | 5 | " 17 | 1.41 | 60 | 1.41 |
| 1893 | R | Little Saxham | 5 | " 12 | 2.05 | 105 | 1.17 |
| 1913 | VR | Elveden Hall | 5 | June 17 | 2.85 | 58 | 2.95 |
| 1915 | VR | Mildenhall | 5 | " 30 | 2.63 | 50 | 3.16 |
| 1918 | R | Little Saxham Rec. | 5 | July 17 | 1.56 | 45 | 2.08 |
| " | R | Bury St. Edmunds, Northgate St. | 5 | " 17 | 1.90 | 60 | 1.90 |
| " | R | " " " , Westley | 5 | " 17 | 1.93 | 90 | 1.29 |
| 1924 | N | " " " , Hengrave Hall | 5 | Aug. 31 | 1.59 | 90 | 1.06 |
| 1927 | N& | Mildenhall | 5 | May 6 | .95 | 40 | 1.43 |
| " | R | " | 5 | July 6 | 1.49 | 50 | 1.79 |
| 1936 | N | " Airfield | 5 | Sept. 5 | 1.06 | 30 | 2.12 |
| 1937 | N | Bury St. Edmunds, Westley | 5 | Aug. 13 | 1.54 | 120 | .77 |
| 1939 | N | Mildenhall Airfield | 5 | Sept. 2 | .83 | 27 | 1.84 |
| 1941 | N | " | 5 | July 8 | .59 | 12 | 2.95 |
| 1946 | VR | Bury St. Edmunds, C. Depot | 5 | " 2 | 2.05 | 30 | 4.10 |
| 1947 | N | Newmarket, Sew. Outfall | 5 | June 27 | 1.17 | 45 | 1.56 |
| " | N | Mildenhall | 5 | " 27 | .80 | 29 | 1.65 |
| 1950 | N | " Airfield | 5 | July 9 | 1.05 | 45 | 1.40 |
| 1951 | N | Pakenham, Church Hill | 5 | Aug. 6 | 1.34 | 105 | .77 |
| 1959 | R | Mildenhall Airfield | 5 | July 11 | 1.75 | 100 | 1.05 |
| Hertfordshire | | | | | | | |
| 1900 | N | Hitchin, Bancroft | 4 | July 16 | 1.00 | 30 | 2.00 |
| 1902 | N | " , The Chiltens | 4 | " 1 | 1.20 | 120 | .60 |
| 1911 | R | Baldock | 4 | June 3 | 1.59 | 60 | 1.59 |
| 1915 | N | Royston, Earls Hill Ho. | 4 | Aug. 10 | .76 | 25 | 1.82 |
| 1924 | N | Offley Vic. | 4 | May 20 | .94 | 45 | 1.25 |
| 1935 | N | " , School Ho. | 4 | July 11 | 1.18 | 40 | 1.77 |
| 1942 | N | Royston, Earls Hill Ho. | 4 | June 14 | 1.38 | 60 | 1.38 |
| 1952 | R | Barley, Dalnveed | 4 | June 13 | 2.06 | 120 | 1.03 |
| 1955 | R | Hitchin, Knightswood | 4 | " 8 | 1.75 | 90 | 1.17 |
| 1958 | N | Royston, East Brooklands | 4 | July 16 | 1.70 | 60 | 1.70 |
| 1959 | N | Chalfont St. Giles, The Colony | 4 | Aug. 10 | .70 | 30 | 1.40 |
| Essex | | | | | | | |
| 1911 | R | Arkesden, Wood Hall | 7 | May 11 | 2.52 | 120 | 1.26 |
| 1914 | N | Great Chesterford Mills | 7 | June 19 | .92 | 45 | 1.23 |
| 1925 | R | Great Chesterford Mills | 7 | July 22 | 1.44 | 25 | 3.46 |
| 1941 | N | Saffron Walden, Debden Rd. | 7 | " 8 | 1.28 | 75 | 1.02 |
| " | N | " " , Bridge End | 7 | " 8 | 1.10 | 90 | .73 |

Key:- N = Noteworthy

R = Remarkable

VR = Very Rare

| County | River Division |
|---|---|
| Northamptonshire | 3 |
| Buckinghamshire | 5 |
| Bedfordshire | 3 |
| Huntingdonshire | 1 |
| Cambridgeshire | 2 |
| Norfolk | 4 |
| Suffolk | 5 |
| Hertfordshire | 4 |
| Essex | 7 |



G.18557/CJH/8/63/100.

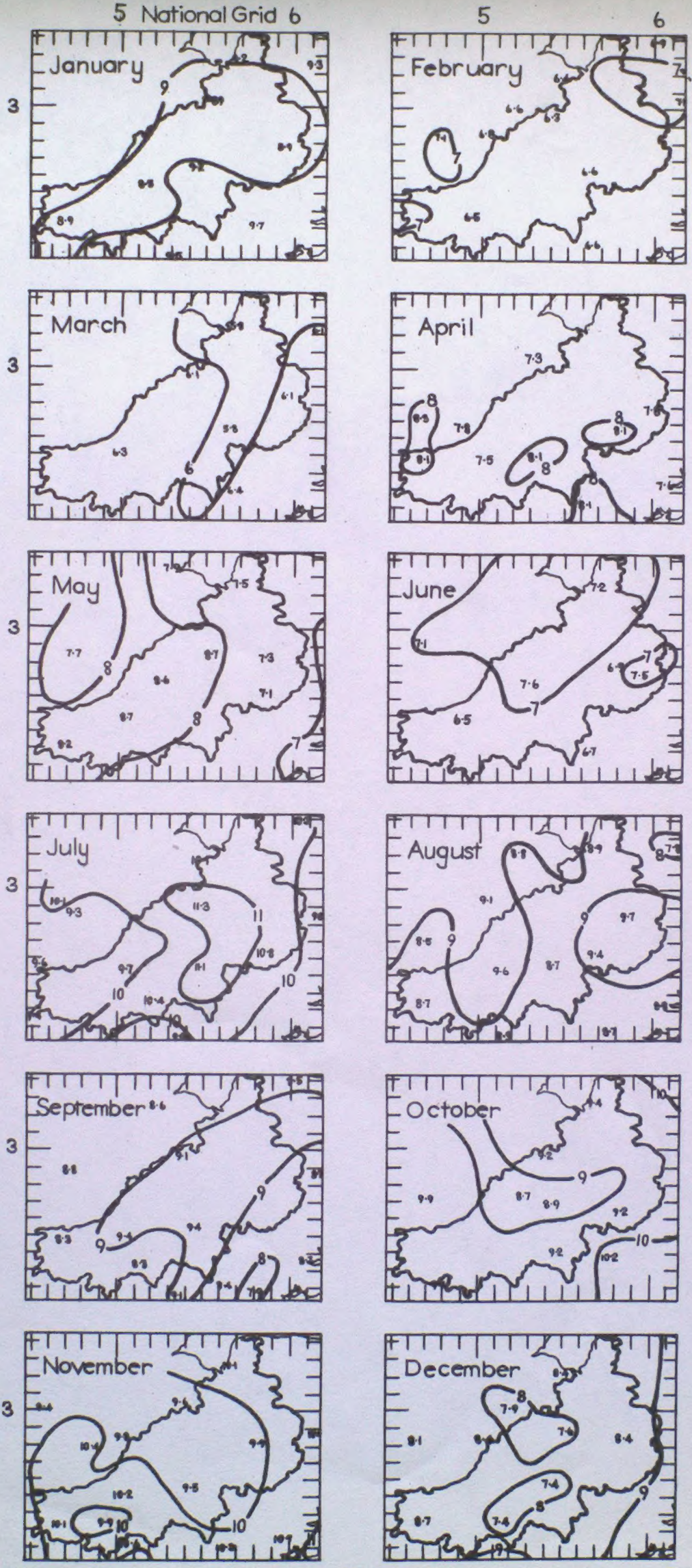


Fig. 1. Average Monthly Rainfall as percentage of Average Annual Rainfall 1916–1950

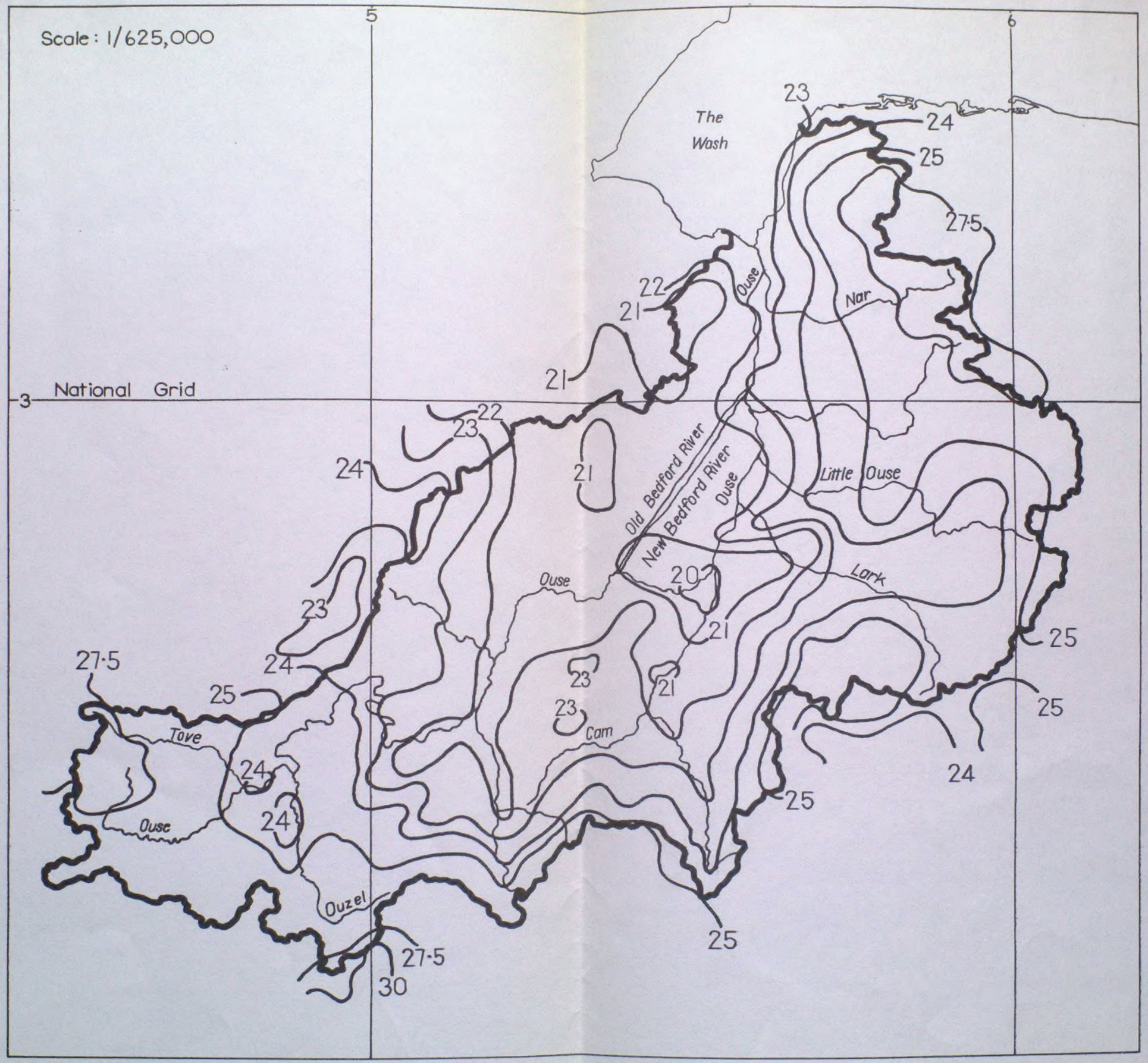


Fig. 2. AVERAGE ANNUAL RAINFALL 1916–1950 (in inches,) over the Ouse River Board area.